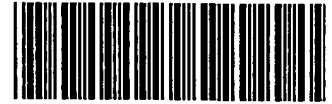


## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 09/980,559A  
Source: IFW/6  
Date Processed by STIC: 11/17/05

***ENTERED***



IFW/b

## RAW SEQUENCE LISTING

DATE: 11/17/2005

PATENT APPLICATION: US/09/980,559A

TIME: 14:45:34

Input Set : A:\NIH255.001NP SEQLIST.TXT

Output Set: N:\CRF4\11172005\I980559A.raw

4 <110> APPLICANT: Yanagi, Masayuki  
5 Emerson, Suzanne  
6 Bukh, Jens  
7 Purcell, Robert  
9 <120> TITLE OF INVENTION: CLONED GENOME OF INFECTIOUS HEPATITIS C  
10 VIRUSES OF GENOTYPE 2a AND USES THEREOF  
13 <130> FILE REFERENCE: NIH255.001NP  
15 <140> CURRENT APPLICATION NUMBER: US 09/980,559A  
16 <141> CURRENT FILING DATE: 2002-05-14  
18 <150> PRIOR APPLICATION NUMBER: PCT/US00/15446  
19 <151> PRIOR FILING DATE: 2000-06-02  
21 <150> PRIOR APPLICATION NUMBER: US 60/137,693  
22 <151> PRIOR FILING DATE: 1999-06-04  
24 <160> NUMBER OF SEQ ID NOS: 70  
26 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
28 <210> SEQ ID NO: 1  
29 <211> LENGTH: 9711  
30 <212> TYPE: DNA  
31 <213> ORGANISM: Hepatitis C virus  
33 <400> SEQUENCE: 1  
34 acccgcccct aataggggag acactccgcc atgaatcact cccctgtgag gaactactgt 60  
35 cttcacgcag aaagcgtcta gccatggcgt tagtatgagt gtcgtacagc ctccaggccc 120  
36 cccctctccg ggagagccat agtggctctgc ggaaccgggt agtacaccgg aattgccggg 180  
37 aagactgggt cctttcttgg ataaaccac tctatgccg gccatttggg cgtgcccccg 240  
38 caagactgct agccgagtag cgttgggttg cgaaaggcct tgtggtagt cctgatagg 300  
39 tgcttgcgag tgccccggga ggtctcgtag accgtgcacc atgagcaca atcctaaacc 360  
40 tcaaagaaaa accaaaagaa acaccaaccg tcgcccacaa gacgttaagt ttccgggcgg 420  
41 cggccagatc gttggcggag tatacttgtt gccgcgcagg ggccccagg tgggtgtgcg 480  
42 cgcgacaagg aagacttcgg agcgggtcca gccacgtgga aggcgccagc ccatccctaa 540  
43 agatcggcgc tccactggca aatcctgggg aaaaccagga taccctggc ccctatacgg 600  
44 gaatgaggga ctcggtctgg caggatggct cctgtcccc cgaggttccc gtccctcttg 660  
45 gggccccaat gacccccggc ataggtcgcg caacgtgggt aaggatcatg ataccctaac 720  
46 gtgcggcttt gccgacctca tggggtacat ccctgtcgtg ggcgccccgc tcggcggcgt 780  
47 cgccagagct ctgcgcgatg gcgtgagagt cctggaggac ggggttaatt ttgcaacagg 840  
48 gaacttacct ggttgtctct tttctatctt cttgctggcc ctgctgtcct gcatcaccac 900  
49 cccggtctcc gctgccgaag tgaagaacat cagtaccggc tacatggtga ctaacgactg 960  
50 caccaatgac agcattacct ggcagctcca ggctgctgtc ctccacgtcc ccgggtgctg 1020  
51 cccgtgcgag aaagtgggga atgcatctca gtgctggata ccggtctcac cgaatgtggc 1080  
52 cgtgcagcgg cccggcgccc tcacgcaggg cttgcggacg cacatcgaca tgggtgtgat 1140  
53 gtccgccacg ctctgctctg ccctctacgt gggggacctc tgccgtgggg tgatgctcgc 1200  
54 agcccaaagt ttcattgtct cgccgcagca ccaactggtt gtccaagact gcaattgtct 1260  
55 catctaccct ggtaccatca ctggacaccg catggcatgg gacatgatga tgaactggtc 1320  
56 gccacggct accatgatct tggcgtacgc gatgcgtgtc cccgaggtca ttatagacat 1380

## RAW SEQUENCE LISTING

DATE: 11/17/2005

PATENT APPLICATION: US/09/980,559A

TIME: 14:45:34

Input Set : A:\NIH255.001NP SEQLIST.TXT

Output Set: N:\CRF4\11172005\I980559A.raw

```

57 cattagcggg gctcattggg ggcgtcatgtt cggcttggcc tacttctcta tgcagggagc 1440
58 gtgggcgaaa gtcgttggtca tccttctgtt ggccgcggg gtggacgcgc gcaccatac 1500
59 tgttgggggt tctgccgcgc agaccacggg gcgcctcacc agcttatttg acatggggcc 1560
60 caggcagaaa atccagctcg ttaacaccaa tggcagctgg cacatcaacc gcaccgccct 1620
61 gaactgcaat gactccttgc acaccggctt tatcgctct ctgttctaca cccacagctt 1680
62 caactcgtca ggatgtcccg aacgcattgtc cgcctgccgc agtatcgagg ccttccgggt 1740
63 gggatggggc gccttgcaat atgaggataa tgtcaccaat ccagaggata tgagacccta 1800
64 ttgctggcac taccaccaa ggcagtgtgg cgtggtctcc gcgaagactg tgtgtggccc 1860
65 agtgtactgt ttcaccccca gccagtggt agtgggcacg accgacaggc ttggagcgcc 1920
66 cacttacacg tggggggaga atgagacaga tgtcttccta ttgaacagca ctcgaccacc 1980
67 gctgggggtca tggttcggct gcacgtggat gaactcttct ggctacacca agacttgccg 2040
68 cgcaccaccc tgccgtacta gagctgactt caacgccagc acggacctgt tgtgccccac 2100
69 ggactgtttt aggaagcatc ctgataccac ttacctcaa tgcggctctg ggccctggct 2160
70 cagccaagg tgctgatcg actacccta caggctctgg cattaccct gcacagttaa 2220
71 ctataccatc ttcaaaataa ggatgtatgt gggaggggtt gagcacaggc tcacggctgc 2280
72 atgcaatttc actcgtggg atcgttgcaa cttggaggac agagacagaa gtcaactgtc 2340
73 tcctttgttg cactccacca cggaatgggc cttttacct tgctcttact cggacctgcc 2400
74 cgccttgctc actggtcttc tccacctcca caaaacatc gtggacgtac aattcatgta 2460
75 tggcctatca cctgccctca caaaatacat cgtccgatgg gagtgggtaa tactcttatt 2520
76 cctgctctta gcggacgcca gggtttgccg ctgcttatgg atgctcatct tgttgggcca 2580
77 ggccgaagca gactagaga agctggtcat cttgcacgct gcgagcgag ctagctgcaa 2640
78 tggttctcta tattttgtca tccttttctg ggctgcttgg tacatcaagg gtcgggtagt 2700
79 ccccttagct acctattccc tcaactggct gtggtccttt agcctactgc tcctagcatt 2760
80 gcccacacag gcttatgctt atgacgcac tgtgcatggc cagataggag cggctctgct 2820
81 ggtaatgatc actctcttta ctctcacccc cgggtataag acccttctca gccggttttt 2880
82 gtggtggttg tgctatcttc tgaccctggg ggaagctatg gtccaggagt gggcaccacc 2940
83 tatgcaggtg cgcggtggcc gtgatggcat catatgggcc gtccgcatat tctaccagg 3000
84 tgtggtgttt gacataacca agtggctctt ggcggtgctt gggcctgctt acctcctaaa 3060
85 aggtgctttg acgcgcgtgc cgtacttctg cagggtcac gctctactga ggatgtgcac 3120
86 catggcaagg catctcgcg ggggcaggta cgtccagatg gcgctactag cccttggcag 3180
87 gtggactggc acttacatct atgaccacct caccctatg tcggattggg ctgctagtgg 3240
88 cctgcgggac ctggcggtcg ccgttgagcc tatcatcttc agtccgatgg agaagaaagt 3300
89 cattgtctgg ggagcggaga cagctgcttg tggggacatt ttacacggac tcccgtgtc 3360
90 cgcccagatt ggtcgggagg tcctccttgg cccagctgat ggctatacct ccaaggggtg 3420
91 gagtcttctc gccccatca ctgcttacgc ccagcagaca cgtggccttt tgggcaccat 3480
92 agtgggtgagc atgacggggc gcgacaagac agaacaggct ggggaaattc aggtcctgtc 3540
93 cacagtcact cagtcttcc tcggaacatc catctcgggg gttttgtgga ctgtctacca 3600
94 tggagctggc aacaagactc tggccggctc acggggtccg gtcacgcaga tgtactccag 3660
95 tgctgagggg gacttagtag ggtggcccag ccccttggg actaaatctt tggagccgtg 3720
96 cacgtgtgga gcggtcgacc tgtacctgg cagcggaac gctgatgtca tcccgctcg 3780
97 aagacgcggg gacaaacggg gagcgtact ctcccagaga cctctttcca cctgaaggg 3840
98 gtcctcagga ggcccgtgc tatgcccag gggccacgct gtcggagtct tccgggcagc 3900
99 tgtgtgctct cggggcgtgg ctaagtccat agatttcatc cccgttgaga cactcgacat 3960
100 cgtcacgcgg tccccacct ttagtgacaa cagcacacca cctgctgtgc cccagacct 4020
101 tcaggctcgg tacttgcatg ccccgactgg cagtggaaag agcaccaaag ttcctgtcgc 4080
102 atatgctgct caggggtata aagtgtagt gcttaatccc tcagtggctg ccaccctggg 4140
103 gtttggggcg tacttgtcta aggcacatgg catcaatccc aacattagga ctggagtcag 4200
104 gactgtgacg accggggcgc ccatcacgta ctccacatat ggcaaattcc tcgccgatgg 4260
105 gggctgtgcg ggcggcgctc acgacatcat catatgtgat gaatgccatg ccgtggactc 4320

```

## RAW SEQUENCE LISTING

DATE: 11/17/2005

PATENT APPLICATION: US/09/980,559A

TIME: 14:45:34

Input Set : A:\NIH255.001NP SEQLIST.TXT

Output Set: N:\CRF4\11172005\I980559A.raw

```

106 taccaccatc cttggcatcg gaacagtcct tgatcaagca gagacagctg gggtcagact 4380
107 aactgtgctg gctacagcta cgccccctgg gtcagtgaca acccccacc ccaacataga 4440
108 ggaggtggcc cttgggcagg agggcgagat ccccttctat gggagggcga ttccctgtc 4500
109 ttacatcaag ggaggaagac atctgatctt ctgccattca aagaaaaagt gtgacgagct 4560
110 cgcgggcgcc cttcggggta tgggcttgaa ctcagtggca tactacagag ggttggacgt 4620
111 ctccgtaata ccaactcagg gagacgtagt ggtcgctgcc accgacgcc tcatgacagg 4680
112 gtatactggg gactttgact ccgtgatcga ctgcaacgta gcggtcactc aagttgtaga 4740
113 cttcagttta gacccacat tcaccataac cacacagatt gtccctcaag acgctgtctc 4800
114 acgtagccag cgccggggtc gcacgggtag ggaagactg ggcatttata ggtatgtttc 4860
115 cactggtgag cgagcctcag gaatgtttga cagtgtagt ctctgtgagt gctacgacgc 4920
116 aggggcccga tggatgagc tcacaccatc ggagaccacc gtcaggctca gggcgtattt 4980
117 caacacgccc ggtttgcctg tgtgccaaga ccattctgag ttttgggagg cagttttcac 5040
118 cggcctcaca cacatagatg cccacttctt tcccaaaca aagcaatcgg gggaaaattt 5100
119 cgcatactta acagcctacc aggtacagt gtgcgctagg gccaaagccc ccccccgctc 5160
120 ctgggacgtc atgtggaagt gtttgactcg actcaagccc acactcgtgg gcccacacc 5220
121 tctcctgtac cgcttgggct ctgttaccaa cgaggtcacc ctcacacatc ccgtgacgaa 5280
122 atacatcgcc acctgcatgc aagccgacct tgaggtcatg accagcacat gggctctggc 5340
123 agggggagtc ttggcgccg tcgcccgcga ttgcctggcg accgggtgtg tttgcatcat 5400
124 cggccgcttg cacattaacc agcgagccgt cgttgcgccg gacaaggagg tcctctatga 5460
125 ggcttttgat gatagggagg aatgtgcctc tagggcggtc ctattgaag aggggcagcg 5520
126 gatagccgag atgtggaagt ccaagatcca aggttattg cagcaagctt ccaaacaagc 5580
127 tcaagacata caaccactg tgcaggcttc atggcccaag gtagaacaat tctgggccaa 5640
128 acacatgtgg aacttcatta gcggcatcca atacctcgca ggactatcaa cactgccagg 5700
129 gaaccctgca gtagcttcca tgatggcggt cagtgcgcc ctaccagtc cgctgtcaac 5760
130 aagcaccact atccttctca acattttggg gggctggcta gcatcccaa ttgcaccacc 5820
131 cgcgggggcc actggcttcg ttgtcagtgg cctagtggga gctgccgtag gcagtatagg 5880
132 cttaggtaag gtgctagtgg acatcctggc agggatagg gcgggcattt cgggggctct 5940
133 cgtcgcattc aagatcatgt ctggcgagaa gccctccatg gaggatgtcg tcaacttgct 6000
134 gcctggaatt ctgtctccgg gtgccttggg agtgggagtc atctgcgcgg ccattctgcg 6060
135 ccgacacgtg ggaccggggg aaggcgccgt ccaatggatg aatagactca ttgcctttgc 6120
136 ttccagagga aatcacgtcg cccccacca ctacgtgacg gactcggatg cgtcgcagcg 6180
137 tgtgacccaa ctacttggct cccttaccat aaccagcctg ctcagaagac tccacaactg 6240
138 gattactgag gactgcccc tcccatgcgg cggctcgtgg ctccgcgatg tgtgggactg 6300
139 ggtttgcacc atcctaacag actttaaaaa ttggtgacc tccaaattat tccaaagat 6360
140 gcccggcctc ccctttgtct cctgtcaaaa ggggtacaag ggcgtgtggg ccggcactgg 6420
141 catcatgacc acacggtgtc cttgcggcgc caatatctct ggcaatgtcc gcttgggctc 6480
142 catgagaatc acggggccta agacctgcac gaatatctgg caggggacct ttcctatcaa 6540
143 ttgttacacg gagggccagt gcgtgccgaa accgcgccca aactttaagg tcgccatctg 6600
144 gaggttggcg gcctcagagt acgcggaggt gacgcagcac gggtcatacc actacataac 6660
145 aggactcacc actgataact tgaaagtccc ctgccaaacta ccctctcccg agttcttttc 6720
146 ctgggtggac ggagtgcaga tccataggtt tgccccaca ccgaagccgt ttttcgggga 6780
147 tgaggtctcg ttctgcgttg ggcttaattc atttgcgtc gggteccagc ttccttgcga 6840
148 ccctgaaccc gacacagacg tattgatgtc catgctaaca gatccatctc atatcacggc 6900
149 ggagactgca gcgcggcggt tagcgcgggg gtcaccccca tccgaggcaa gctcctcggc 6960
150 gagccagcta tcggcaccat cgctgcgagc cacctgcacc acccacggca aagcctatga 7020
151 tgtggacatg gtggatgcta acctgttcat gggggcgcat gtgactcgga tagagtctgg 7080
152 gtccaaagtg gtcgttcttg actctctcga ccaatggtc gaagaaagga gcgaccttga 7140
153 gccttcgata ccatcagaat acatgtctcc caagaagagg ttcccaccag ctttaccggc 7200
154 ctgggcacgg cctgattaca accaccgct tgtggaatcg tggaaaaggc cagattacca 7260

```

RAW SEQUENCE LISTING

DATE: 11/17/2005

PATENT APPLICATION: US/09/980,559A

TIME: 14:45:34

Input Set : A:\NIH255.001NP SEQLIST.TXT

Output Set: N:\CRF4\11172005\I980559A.raw

```

155 accggccact gttgcgggct gtgctctccc tcctcctagg aaaacccccga cgctctcccc 7320
156 aaggaggcgc cggacagtgg gcctaagtga ggactccata ggagatgccc ttcaacagct 7380
157 ggccattaag tcctttggcc agcccccccc aagcggcgat tcaggccttt ccacgggggc 7440
158 gggcgctgcc gattccggca gtcagacgcc tcctgatgag ttggcccttt cggagacagg 7500
159 ttccatctct tccatgcccc ccctcgaggg ggagcttgga gatccagacc tggagcctga 7560
160 gcaggtagag ccccaacccc cccccaggg gggggtggca gctcccggct cggactcggg 7620
161 gtctgtgtct acttgctccg aggaggacga ctccgtcgtg tgctgctcca tgtcatactc 7680
162 ctggaccggg gctctaataa ctctttag tagccgaagag gagaagttac cgattaaccc 7740
163 cttgagcaac tccctgttgc gatatcacaa caaggtgtac tgtaccacaa caaagagcgc 7800
164 ctactaagg gctaaaaagg taacttttga taggatgcaa gtgctcgact cctactacga 7860
165 ctcagtctta aaggacatta agctagcggc ctccaaggct accgcaaggc tcctcaccat 7920
166 ggaggaggct tgccagttaa cccaccccca ttctgcaaga tctaaatatg ggtttggggc 7980
167 taaggaggct cgcagcttgt ccgggagggc cgtaaccac atcaagtccg tgtggaagga 8040
168 cctcctggag gactcagaaa caccaattcc cacaaccatt atggccaaaa atgaggtgtt 8100
169 ctgctgggac cccaccaagg ggggcaagaa agcagctcgc cttatcgctt accctgacct 8160
170 cggcgtcagg gtctgcgaga agatggccct ttatgacatt acacaaaaac ttcctcaggc 8220
171 ggtgatgggg gcttcttatg gattccagta ttcccccgct cagcgggtag agtttctctt 8280
172 gaaagcatgg gcggaaaaga aggaccctat gggtttttcg tatgataccc gatgctttga 8340
173 ctcaaccgtc actgagagag acatcaggac tgaggagtcc atatatcggg cctgctcctt 8400
174 gcccaggagg gcccactctg ccatacactc gctaactgag agactttacg tgggagggcc 8460
175 tatgttcaac agcaaggggc aaacctgcgg gtacaggcgt tgccgcgcca gcggggtgct 8520
176 caccactagc atggggaaca ccatacatg ctacgtgaaa gccttagcgg cttgtaaagc 8580
177 tgcagggata atcgcgccca caatgctggt atgcggcgat gacttggttg tcatctcaga 8640
178 aagccagggg accgaggagg acgagcggaa cctgagagcc ttcacggagg ctatgaccag 8700
179 gtattctgcc cctcctggtg accccccag accggagtat gatctggagc tgataacatc 8760
180 ttgctcctca aatgtgtctg tggcgctggg cccacaaggc cgccgcagat actacctgac 8820
181 cagagaccct accactccaa tcgcccgggc tgccctggga acagttagac actcccctgt 8880
182 caattcatgg ctgggaaaca tcatccagta cgccccgacc atatgggctc gcatggtcct 8940
183 gatgacacac ttcttctcca ttctcatggc tcaagacacg ctggaccaga acctcaactt 9000
184 tgagatgtac ggagcgggtg actccgtgag tccttgggac ctcccagcta taattgaaag 9060
185 gttacatggg cttgacgctt tttctctgca cacatacact cccacgaac tgacacgggt 9120
186 ggcttcagcc ctcaaaaaac ttggggcgcc acccctcaga gcgtggaaga gccgggcacg 9180
187 tgcagtcagg gcgtccctca tctcccgtag ggggagagcg gccgtttgag gtcgatatct 9240
188 cttcaattgg gcggtgaaga ccaagctcaa actcactcca ttgccggaag cgcgcctcct 9300
189 ggatttatcc agctggttca ccgtcggcgc cggcgggggc gacatttatc acagcgtgtc 9360
190 gcgtgcccga ccccgcttat tgctctttgg cctactccta cttttttagg gggtaggcct 9420
191 tttcctactc cccgctcggg agagcggcac acattagcta cactccatag ctaactgtcc 9480
192 cttttttttt tttttttttt tttttttttt tttttttttt tttttttttt tttttttttt 9540
193 tttttttttt tttttttttt tttttctttt tttctctttt ccttctttct taccttattt 9600
194 tactttcttt cctggtggct ccattcttag cctagtcacg gctagctgtg aaaggtccgt 9660
195 gagccgcatg actgcagaga gtgccgtaac tggctctctc gcagatcatg t 9711

```

196 <210> SEQ ID NO: 2

197 <211> LENGTH: 3033

198 <212> TYPE: PRT

199 <213> ORGANISM: Hepatitis C virus

201 <400> SEQUENCE: 2

202 Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn

203 1 5 10 15

204 Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly

## RAW SEQUENCE LISTING

DATE: 11/17/2005

PATENT APPLICATION: US/09/980,559A

TIME: 14:45:34

Input Set : A:\NIH255.001NP SEQLIST.TXT

Output Set: N:\CRF4\11172005\I980559A.raw

205			20					25				30				
206	Gly	Val	Tyr	Leu	Leu	Pro	Arg	Arg	Gly	Pro	Arg	Leu	Gly	Val	Arg	Ala
207			35					40				45				
208	Thr	Arg	Lys	Thr	Ser	Glu	Arg	Ser	Gln	Pro	Arg	Gly	Arg	Arg	Gln	Pro
209		50					55					60				
210	Ile	Pro	Lys	Asp	Arg	Arg	Ser	Thr	Gly	Lys	Ser	Trp	Gly	Lys	Pro	Gly
211	65					70					75				80	
212	Tyr	Pro	Trp	Pro	Leu	Tyr	Gly	Asn	Glu	Gly	Leu	Gly	Trp	Ala	Gly	Trp
213				85					90					95		
214	Leu	Leu	Ser	Pro	Arg	Gly	Ser	Arg	Pro	Ser	Trp	Gly	Pro	Asn	Asp	Pro
215			100						105				110			
216	Arg	His	Arg	Ser	Arg	Asn	Val	Gly	Lys	Val	Ile	Asp	Thr	Leu	Thr	Cys
217			115					120					125			
218	Gly	Phe	Ala	Asp	Leu	Met	Gly	Tyr	Ile	Pro	Val	Val	Gly	Ala	Pro	Leu
219		130					135					140				
220	Gly	Gly	Val	Ala	Arg	Ala	Leu	Ala	His	Gly	Val	Arg	Val	Leu	Glu	Asp
221	145				150						155				160	
222	Gly	Val	Asn	Phe	Ala	Thr	Gly	Asn	Leu	Pro	Gly	Cys	Ser	Phe	Ser	Ile
223				165					170					175		
224	Phe	Leu	Leu	Ala	Leu	Leu	Ser	Cys	Ile	Thr	Thr	Pro	Val	Ser	Ala	Ala
225			180						185				190			
226	Glu	Val	Lys	Asn	Ile	Ser	Thr	Gly	Tyr	Met	Val	Thr	Asn	Asp	Cys	Thr
227			195					200					205			
228	Asn	Asp	Ser	Ile	Thr	Trp	Gln	Leu	Gln	Ala	Ala	Val	Leu	His	Val	Pro
229		210					215					220				
230	Gly	Cys	Val	Pro	Cys	Glu	Lys	Val	Gly	Asn	Ala	Ser	Gln	Cys	Trp	Ile
231	225				230						235				240	
232	Pro	Val	Ser	Pro	Asn	Val	Ala	Val	Gln	Arg	Pro	Gly	Ala	Leu	Thr	Gln
233				245					250					255		
234	Gly	Leu	Arg	Thr	His	Ile	Asp	Met	Val	Val	Met	Ser	Ala	Thr	Leu	Cys
235			260					265					270			
236	Ser	Ala	Leu	Tyr	Val	Gly	Asp	Leu	Cys	Gly	Gly	Val	Met	Leu	Ala	Ala
237			275					280					285			
238	Gln	Met	Phe	Ile	Val	Ser	Pro	Gln	His	His	Trp	Phe	Val	Gln	Asp	Cys
239		290				295						300				
240	Asn	Cys	Ser	Ile	Tyr	Pro	Gly	Thr	Ile	Thr	Gly	His	Arg	Met	Ala	Trp
241	305				310						315				320	
242	Asp	Met	Met	Met	Asn	Trp	Ser	Pro	Thr	Ala	Thr	Met	Ile	Leu	Ala	Tyr
243				325						330				335		
244	Ala	Met	Arg	Val	Pro	Glu	Val	Ile	Ile	Asp	Ile	Ile	Ser	Gly	Ala	His
245			340						345				350			
246	Trp	Gly	Val	Met	Phe	Gly	Leu	Ala	Tyr	Phe	Ser	Met	Gln	Gly	Ala	Trp
247			355					360					365			
248	Ala	Lys	Val	Val	Val	Ile	Leu	Leu	Leu	Ala	Ala	Gly	Val	Asp	Ala	Arg
249		370				375						380				
250	Thr	His	Thr	Val	Gly	Gly	Ser	Ala	Ala	Gln	Thr	Thr	Gly	Arg	Leu	Thr
251	385				390						395				400	
252	Ser	Leu	Phe	Asp	Met	Gly	Pro	Arg	Gln	Lys	Ile	Gln	Leu	Val	Asn	Thr
253				405					410					415		

**VERIFICATION SUMMARY**

DATE: 11/17/2005

PATENT APPLICATION: US/09/980,559A

TIME: 14:45:35

Input Set : A:\NIH255.001NP SEQLIST.TXT

Output Set: N:\CRF4\11172005\I980559A.raw